

### Abstract of the Disclosure

A hybrid navigation system including a neural network is provided. The hybrid navigation system includes a global positioning system (GPS) as a main system using satellites and a radio determination system when there are difficulties in reception of signals from the satellites. The hybrid navigation system comprises a GPS signal processor, a TDOA signal processor and a neural network. The GPS signal processor receives GPS signals from the satellites to determine positions. The TDOA signal processor receives determination signals from mobile communication stations to determine positions. The neural network uses position values inputted from each of the GPS signal processor and the TDOA signal processor to learn and predict the position of the mobile terminal.

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